

U.S. Serial No.: 10/563,507
Docket No.: 26281-14A

Examiner: J. Goodrow
Art Unit: 1795

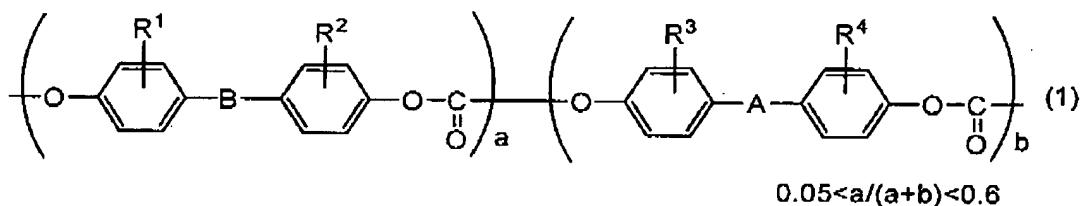
AMENDMENTS TO THE CLAIMS

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1. (Currently amended) A wet-developing electrophotographic photoconductor which forms a photosensitive layer containing at least a charge generating agent, an electron transport agent, a hole transport agent and a binding resin on an electrically conductive base body thereof, wherein

the binding resin contains a polycarbonate resin represented by a following general formula (1), and a molecular weight of the hole transport agent assumes a value which is equal to or more than 900, and an inorganic value/organic value (I/O value) of the electron transport agent is set to 0.60 or more, and an inorganic value/organic value (I/O value) of the binding resin is set to 0.37 or more;



(R¹ to R⁴ in the general formula (1) are respectively independent and represent a hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbons, a substituted or unsubstituted aryl group having 6 to 30 carbons and a substituted or unsubstituted halogenated alkyl group having 1 to 12 carbons, and A represents -O-, -S-, -CO-, -COO-, -(CH₂)₂-, -SO-, -SO₂-, -CR⁵R⁶-, -SiR⁵R⁶- or -SiR⁵R⁶-O- (R⁵ and R⁶ are respectively independent and represent a hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 8 carbons, a substituted or unsubstituted aryl group having 6 to 30 carbons, a trifluoromethyl group, or a cycloalkylidene having 5 to 12 carbons in which R⁵ and R⁶ form a ring and an alkyl group having 1 to 7 carbons may be included as a substituent group) and B represents single bond, -O- or -CO-).

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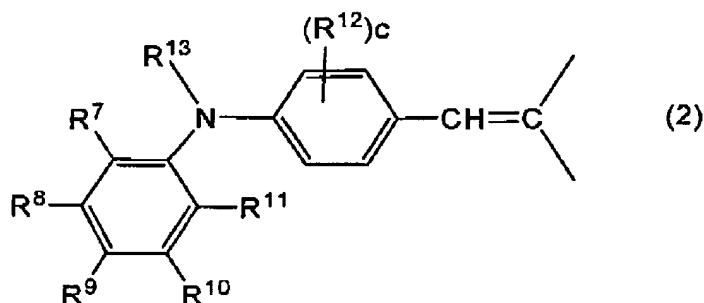
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2. (Original) The wet-developing electrophotographic photoconductor according to claim 1, wherein a ratio between the inorganic value/organic value (I/O value) of the electron transport agent and the inorganic value/organic value (I/O value) of the binding resin is set to a value which falls within a range of 1.5 to 3.0.
3. (Canceled)
4. (Currently Amended) The wet-developing electrophotographic photoconductor according to claim 1, wherein R^5 and R^6 in the general formula (1) differ in kinds and R^5 and R^6 possess an asymmetric relationship.
5. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein a viscosity average molecular weight of the binding resin assumes a value which falls within a range of 40,000 to 80,000.
6. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein a molecular weight of the electron transport agent assumes a value which is equal to or more than 600.
7. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein an addition quantity of the electron transport agent assumes a value which falls within a range of 10 to 100 parts by weight with respect to 100 parts by weight of the binding resin.
8. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein an addition quantity of the hole transport agent assumes a value which falls within a range of 10 to 80 parts by weight with respect to 100 parts by weight of the binding resin.
9. (Canceled)

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10. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein the hole transport agent has the stilbene structure represented by a following general formula (2).



(In the general formula (2), R^7 to R^{13} are respectively independent, and represent a hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbons, a substituted or unsubstituted alkenyl group having 2 to 20 carbons, a substituted or unsubstituted aryl group having 6 to 30 carbons, a substituted or unsubstituted aralkyl group having 6 to 30 carbons, a substituted or unsubstituted azo group, or a substituted or unsubstituted diazo group having 6 to 30 carbons and the repetition number c is an integer from 1 to 4.)

11. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein an elution quantity of the hole transport agent is equal to or below $5 \times 10^{-7} \text{g/cm}^3$ when the wet-developing electrophotographic photoconductor is immersed in a hydrocarbon-based solvent used as a wet-developing developer under conditions of a room temperature and 600 hours.

12. (Previously presented) The wet-developing electrophotographic photoconductor according to claim 1, wherein photosensitive layer is a single-layer type.

13. (Canceled)

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14. (Currently Amended) A wet-developing image forming device which includes the wet-developing electrophotographic photoconductor described in claim 1 ~~a wet-developing electrophotographic photoconductor which forms a photosensitive layer containing at least a charge generating agent, an electron transport agent, a hole transport agent and a binding resin on an electrically conductive base body thereof, wherein an inorganic value/organic value (I/O value) of the electron transport agent is set to 0.60 or more, and an inorganic value/organic value (I/O value) of the binding resin is set to 0.37 or more,~~

and arranges a charging step, an exposure step, a developing step and a transfer step respectively around the wet-developing electrophotographic photoconductor.